



# NDR-75 Series

## 75Watts single output industrial DIN-Rail power supply



### Features :

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty



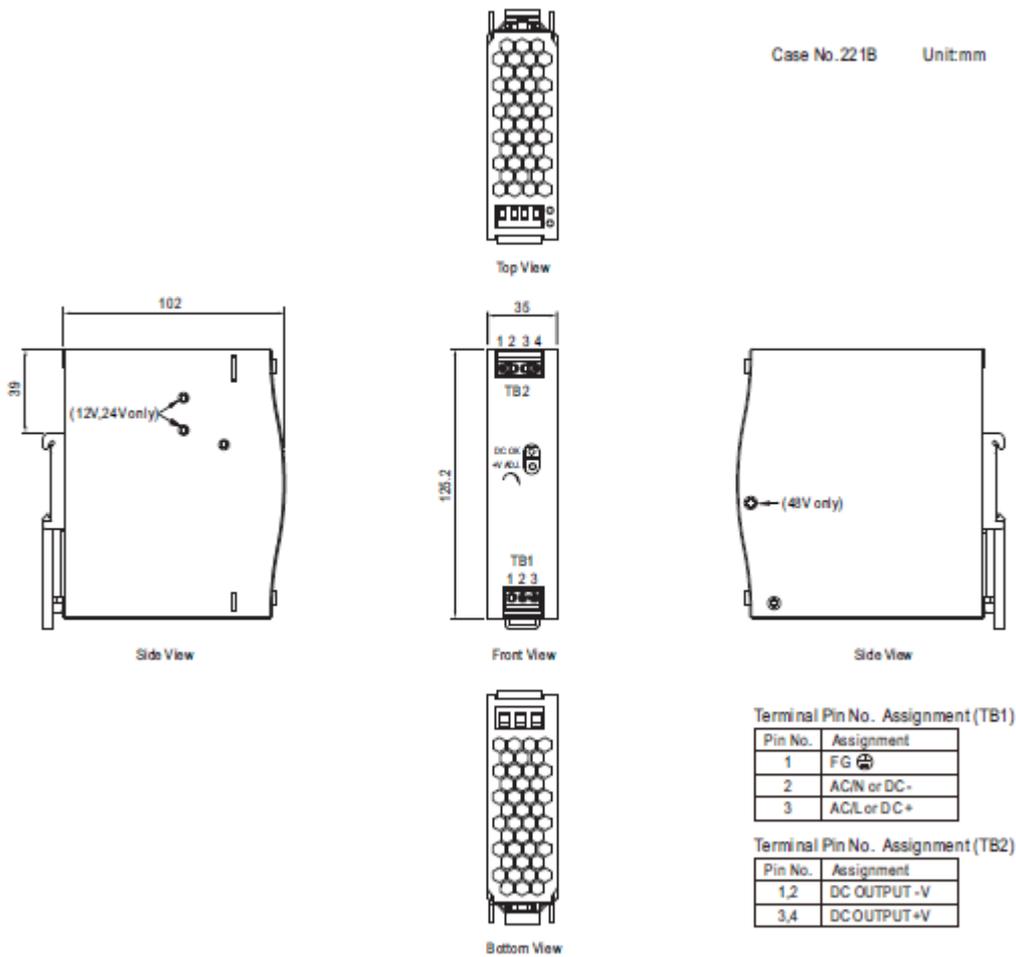
### SPECIFICATION

Model		NDR-75-12	NDR-75-24	NDR-75-48
Output	DC Voltage	12V	24V	48V
	Rated Current	6.3A	3.2A	1.6A
	Current Range	0 ~ 6.3A	0 ~ 3.2A	0 ~ 1.6A
	Rated Power	75.6 watts	76.8 Watts	76.8 Watts
	Ripple & Noise (max.) *Note.2*	80mVp-p	120mVp-p	150mVp-p
	Voltage ADJ. Range	12 ~ 14V	24 ~ 28V	48 ~ 55V
	Voltage Tolerance *Note.3*	±2.0%	±1.0%	±1.0%
	Line Regulation	±0.5%	±0.5%	±0.5%
	Load Regulation	±1.0%	±1.0%	±1.0%
	Setup, Rise Time	1200ms, 60ms/230VAC      2000ms, 60ms/115VAC at full load		
Hold Up Time (Typ.)	60ms/230VAC	12ms/115VAC at full load		
Input	Voltage Range	90 ~ 264VAC      127 ~ 370VDC		
	Frequency Range	47 ~ 63Hz		
	Efficiency (Typ.)	85.5%	88%	89%
	AC Current (Typ.)	1.45A/115VAC	0.9A/230VAC	
	Inrush Current (Typ.)	Cold Start 20A/115VAC	35A/230VAC	
	Leakage Current	<1mA/240VAC		
Protection	Overload	105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed		
	Over Voltage	14 ~ 17V	29 ~ 33V	56 ~ 65V
	Over Temperature	Protection type : Shut down o/p voltage, re-power on to recover		
Environment	Working Temp.	-20 ~ +70°C (Refer to Derating curve)		
	Working Humidity	20 ~ 95% RH (non-condensing)		
	Storage Temp., Humidity	-40 ~ 85°C, 10 ~ 95%RH		
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)		
	Vibration	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes; Mounting : Compliance to IEC60068-2-6		
Safety & EMC *Note4*	Safety Standards	UL508, TUV EN62368-1 approved		
	Withstand Voltage	I/P-O/P : 3KVAC	I/P-FG : 2KVAC	O/P-FG : 0.5KVAC
	Isolation Resistance	I/P-O/P, IP-FG, O/P-FG : 100M Ohms/500VDC/25°C/70% RH		
	EMI conduction & Radiation	Compliance to EN55032 (CISPR22), EN61204-3 Class B, EAC TP TC 020		
	Harmonic Current	Compliance to EN61000-3-2, EN61000-3-3		

\* All specifications are subject to change without notice.

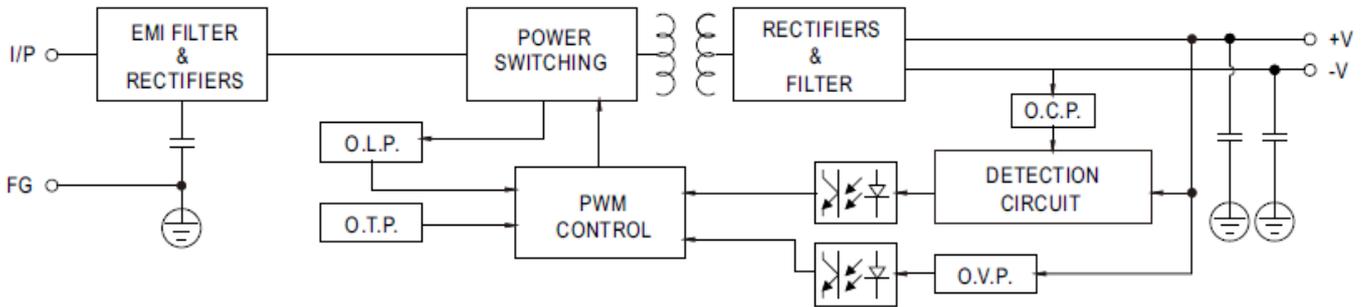
	<b>EMS Immunity</b>	Compliance to EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, EAC TP TC 020
<b>Others</b>	<b>MTBF</b>	486.2K hrs min. MIL-HDBK-217F (25°C)
	<b>Dimension</b>	32 x 125.2 x 102mm (W x H x D)
	<b>Packing</b>	0.51Kg; 28pcs/15.3Kg/1.22CUFT
<b>Note</b>	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> <li>5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.</li> <li>6. Derating may be needed under low input voltage. Please check the derating curve for more detail.</li> </ol>	

## DIMENSIONS

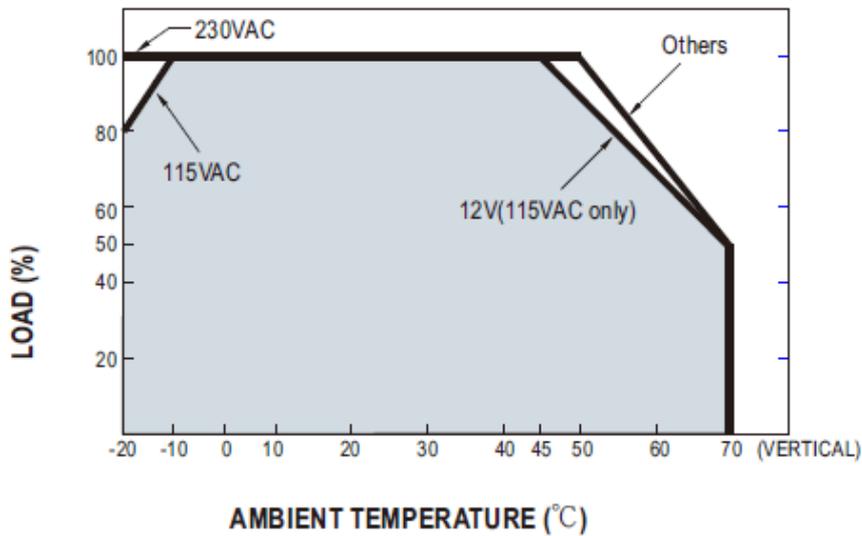


## BLOCK DIAGRAM

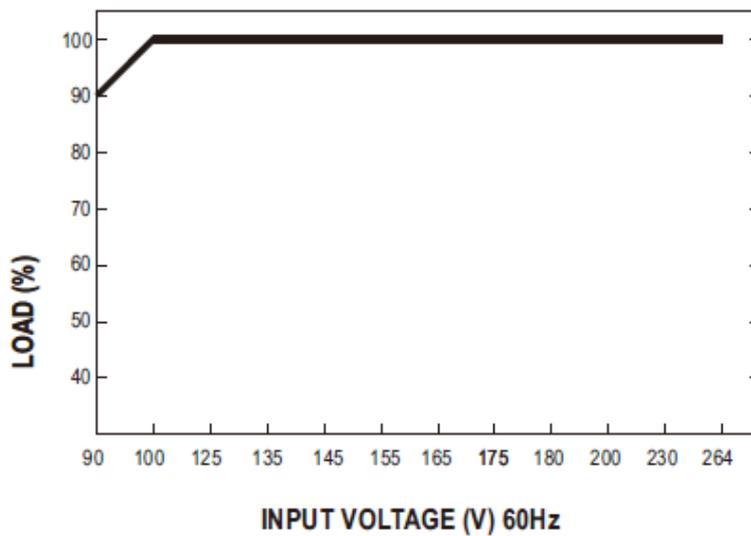
fosc : 85KHz



## OUTPUT DERATING



## OUTPUT DERATING v.s. INPUT VOLTAGE



## ORDERING INFORMATION

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	Model Name	Description
Available Model	<b>NDR-75-12</b>	75W DIN-Rail 12VDC/6.3A (voltage adjustable 12~14VDC) Power Supply with universal 100 to 240VAC input, -20~70°C
	<b>NDR-75-24</b>	75W DIN-Rail 24VDC/3.2A (voltage adjustable 24~28VDC) Power Supply with universal 100 to 240VAC input, -20~70°C
	<b>NDR-75-48</b>	75W DIN-Rail 48VDC/1.6A (voltage adjustable 48~55VDC) Power Supply with universal 100 to 240VAC input, -20~70°C